

Geneseq Database Search Tool

Geneseq Version: 79.0, Release Date: 7Mar2003

!!NA_SEQUENCE 1.0
ID AAW58391 standard; Protein; 285 AA.
AC AAW58391;
DT 11-SEP-1998 (first entry)
DE Homo sapiens neutrokinin alpha protein.
KW neutrokinin alpha; cell proliferation; differentiation; migration;
KW cytotoxicity; cell death; treatment; tumour; infection; inflammation;
KW wound healing; immunodeficiency; autoimmune disease; graft rejection;
KW fibrotic disorder; haematopoiesis; sepsis; shock; malaria; HIV; AIDS;
KW acquired immune deficiency syndrome; rheumatoid arthritis; silicosis;
KW cachexia; detection; diagnosis; drug screening.;
OS Homo sapiens.
FH Key Location/Qualifiers
FT Domain 1. .46
FT /note= intracellular domain
FT Domain 47. .72
FT /note= transmembrane domain
FT Domain 73. .285
FT /note= extracellular domain
PN WO9818921-A1.
PD 07-MAY-1998.
PF 25-OCT-1996; 96WO-US17957.
PR 25-OCT-1996; 96WO-US17957.
PA (HUMA-) HUMAN GENOME SCI INC.
PI Ebner R, Ni J, Yu G;
DR WPI; 1998-272216/24.
DR N-PSDB; AAV30934.
PT New isolated human Neutrokinin alpha - used to develop products for
PT diagnosis and treatment of e.g. tumours, infections,
PT immunodeficiencies or autoimmune diseases
PS Claim 17; Fig 1; 104pp; English.
CC The sequence is that of the neutrokinin alpha protein.
CC Neutrokinin alpha (NA) polypeptides modulate cell proliferation,
CC differentiation, migration, cytotoxicity and cell death.
CC They can be used to treat e.g. tumour and tumour metastasis, infections
CC by bacteria, viruses and other parasites, immunodeficiencies,
CC inflammatory diseases, lymphadenopathy, autoimmune diseases, graft
CC versus host disease and to stimulate peripheral tolerance, destroy some
CC transformed cell lines, mediate cell activation and proliferation, and
CC are functionally linked as primary mediators of immune regulation and
CC inflammatory responses. Such activity is useful for immune enhancement
CC or suppression, myeloprotection, stem cell mobilisation, acute and
CC chronic inflammatory control and treatment of leukaemia. They can also
CC be used to stimulate wound healing and to treat fibrotic disorders
CC including liver cirrhosis, osteoarthritis and pulmonary fibrosis. They
CC can also be used to regulate haematopoiesis, by regulating the activation
CC and differentiation of various haematopoietic progenitor cells, e.g. to
CC release mature leukocytes from the bone marrow following chemotherapy,
CC and in stem cell mobilisation. NA may also be used to treat sepsis. NA
CC antagonists can be used to prevent septic shock, inflammation, cerebral
CC malaria, activation of the HIV virus, graft-host rejection, bone
CC resorption, rheumatoid arthritis and cachexia (wasting or malnutrition).
CC They can also be used to treat e.g. autoimmune diseases such as multiple
CC sclerosis and insulin-dependent diabetes and inflammatory and infectious
CC diseases such as silicosis, and sarcoidosis, idiopathic pulmonary
CC fibrosis, idiopathic hyper-eosinophilic syndrome, endotoxic shock,
CC atherosclerosis, histamine-mediated allergic reactions and immunological
CC disorders including late phase allergic reactions, chronic urticaria, and
CC atopic dermatitis by inhibiting chemokine-induced mast cell and basophil
CC degranulation and release of histamine. IgE-mediated allergic reactions
CC such as allergic asthma, rhinitis and eczema, inflammatory pulmonary
CC diseases, rheumatoid arthritis, inflammation, degenerative and
CC inflammatory arthropathies, aplastic anaemia, myelodysplastic syndrome,
CC subepithelial basement membrane fibrosis or adult respiratory distress
CC syndrome. The products can also be used for detection, diagnosis and
CC drug screening.

SQ Sequence 285 AA;

AAW58391 Length: 285 March 11, 2003 16:49 Type: N Check: 5261

1 MDDSTEREQS RLTSLKKRE EMKLKECVSI LPRKESPSVR SSKDGKLLAA
51 TLLLALLSCC LTVVSYQVA ALQGDLASLR AELQGHHAEK LPAGAGAPKA
101 GLEEAPAVTA GLKIFEPPAP GEGNSSQNSR NKRAVQGPEE TVTQDCLQLI
151 ADSETPTIQQK GSYTFVPWLL SFKRGSALEE KENKILVKET GYFFIYGQVL
201 YTDKTYAMGH LIQRKKVHVF GDELSLVTLF RCIQNMPETL PNNSCYSAGI
251 AKLEEGDELQ LAIPRENAQI SLDGDVTFFG ALKLL